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☐ 1. Document ID: JP 2000264715 A

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File: JPAB

Sep 26, 2000

PUB-NO: JP02000264715A

DOCUMENT-IDENTIFIER: JP 2000264715 A

TITLE: WARE

PUBN-DATE: September 26, 2000

## INVENTOR-INFORMATION:

NAME

KAWAGUCHI, HIROTAMI

COUNTRY

INT-CL (IPC): C04 B 33/00; C04 B 33/34

## ABSTRACT:

PROBLEM TO BE SOLVED: To exhibit excellent effects including not only health promotion and environment cleaning but activity, immune effect and sterilizing and antimicrobial effects as well and provision of tasteful texture by applying tourmaline-containing glaze into which tourmaline powder is incorporated to magnetic or ceramic molded goods molded to a desired shape and firing the molded goods at prescribed temperature.

SOLUTION: The molded goods 1 are first molded to the desired shape by using the magnetic or ceramic stock. The tourmaline-containing glaze 3 into which the tourmaline powder 2 is incorporated is applied to the molded goods 1 and the molded goods are fired at the prescribed temperature, for example, 1000 to 1400

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	AWC	Draw Desc	Image
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☐ 2. Document ID: JP 2000264715 A

L1: Entry 2 of 2

File: DWPI

Sep 26, 2000

DERWENT-ACC-NO: 2001-043307

DERWENT-WEEK: 200106

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TITLE: Disinfecting tableware has molded vessel provided with glassed coating which has numerous granules of magnetic tourmaline powder on surface

PRIORITY-DATA: 1999JP-0073257 (March 18, 1999)

## PATENT-FAMILY:

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MAIN-IPC

C04B033/00

INT-CL (IPC): C04 B 33/00; C04 B 33/34

ABSTRACTED-PUB-NO: JP2000264715A

BASIC-ABSTRACT:

NOVELTY - The molded vessel (1) has a glassed coating (3) provided on the surface. The glassed coating has numerous granules of magnetic tourmaline powder (2) on its surface.

USE - For tablewares, flower pots, vases, etc.

ADVANTAGE - The tableware gets a better texture. Also coating has disinfecting qualities, as glassed coating consisting of magnetic tourmaline powder is coated on surface.

DESCRIPTION OF DRAWING(S) - The figure shows sectional view of tableware.

Molded vessel 1

Tourmaline powder 2

Glassed coating 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Draw Desc	Clipping	Image
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# PATENT ABSTRACTS OF JAPAN

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(21)Application number : 11-073257

(71)Applicant : KAWAGUCHI HIROTAMI

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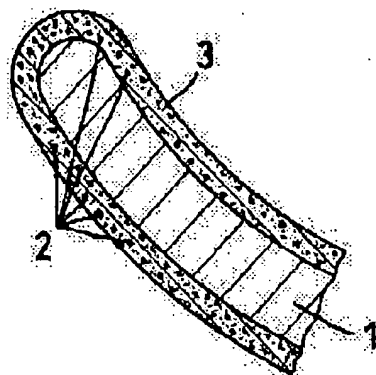
(72)Inventor : KAWAGUCHI HIROTAMI

(54) WARE

(57)Abstract:

**PROBLEM TO BE SOLVED:** To exhibit excellent effects including not only health promotion and environment cleaning but activity, immune effect and sterilizing and antimicrobial effects as well and provision of tasteful texture by applying tourmaline-containing glaze into which tourmaline powder is incorporated to magnetic or ceramic molded goods molded to a desired shape and firing the molded goods at prescribed temperature.

**SOLUTION:** The molded goods 1 are first molded to the desired shape by using the magnetic or ceramic stock. The tourmaline-containing glaze 3 into which the tourmaline powder 2 is incorporated is applied to the molded goods 1 and the molded goods are fired at the prescribed temperature, for example, 1000 to 1400°C. The powder prepared by treating tourmaline ore with a crushing and pulverizing machine and using the powder recovered (the powder of a very small grain size) by a sieve is used for the tourmaline powder. The potential difference of the tourmaline crystals is higher and the effect by the tourmaline is higher as the grain size is smaller. The use of the grain size meeting the need suffices and the determination of the content corresponding to an expected effect suffices.



## LEGAL STATUS

[Date of request for examination]

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**CLAIMS**

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[Claim(s)]

[Claim 1] The vessel characterized by having \*\*\*\*(ed) the tourmaline content cover coat which contained tourmaline powder in the mold goods of the magnetism fabricated in the desired configuration, or \*\*\*\*, and calcinating at predetermined temperature.

[Claim 2] The vessel characterized by having mixed the powder or particle of a tourmaline of the suitable amount for the material of magnetism or \*\*\*\*, having fabricated mold goods in the desired configuration, and calcinating these mold goods at predetermined temperature.

[Claim 3] The vessel according to claim 2 characterized by \*\*\*\*(ing) a cover coat to the above-mentioned mold goods.

[Claim 4] The vessel according to claim 2 characterized by \*\*\*\*(ing) the tourmaline content cover coat which contained tourmaline powder in the above-mentioned mold goods.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[The technical field to which invention belongs] This invention is a vessel, for example, various tableware, a vase, a flowerpot, etc., health promotion and environmental clarification have activity, the immunity effect, sterilization, and an antibacterial action from the first, and mouthfeel is related with \*\*\*\* or a vessel, such as becoming mellow.

[0002]

[Description of the Prior Art] The conventional vessel, for example, tableware, a vase, etc. of various configurations, kneads the mixture of natural minerals, such as a pottery stone, a feldspar, and clay, and its thing which calcinated mold goods by the optimal temperature after fabricating in a predetermined configuration is common. In addition, the cover coat is \*\*\*\*(ed) by mold goods before calcinating.

[0003]

[Problem(s) to be Solved by the Invention] According to the above vessels, for example, tableware, the only cooked food is put in or it dishes up, and from tableware, there are no effects, such as becoming delicious, and they are only health promotion and the esthetic effect by the picture pattern etc. of tableware.

[0004] Moreover, since there is neither water purification nor activation, decomposition of water carries out raising for a short time if it is especially in a vase, and the above-mentioned problem becomes remarkable if the life of flower arrangement is in the summer when especially temperature is high in short \*\*\*\* even if it is in cops, a vase, etc., exchange of frequent water is needed.

[0005] Then, health promotion and environmental clarification have activity, the immunity effect and sterilization, and an antibacterial action from the first, and the technical problem of this invention is to offer the vessel which demonstrates the effect which was [ become / delicious / mouthfeel ] excellent.

[0006]

[Means for Solving the Problem] In order to solve the above-mentioned technical problem, this invention \*\*\*\* the tourmaline content cover coat which contained tourmaline powder in the mold goods of the magnetism fabricated in the desired configuration, or \*\*\*\*, and calcinates it at predetermined temperature.

[0007] Moreover, the powder or particle of a tourmaline of the suitable amount for the material of magnetism or \*\*\*\* is mixed, mold goods are fabricated in a desired configuration, and these mold goods are calcinated at predetermined temperature.

[0008] Furthermore, the tourmaline content cover coat which contained tourmaline powder in the mold goods which the cover coat was \*\*\*\*(ed) to the mold goods which mixed the powder of a tourmaline or the particle of a tourmaline, and the powder of a tourmaline or the particle mixed may be \*\*\*\*(ed).

[0009]

[Embodiments of the Invention] The gestalt of implementation of this invention is explained based on an accompanying drawing.

[0010] As shown in drawing 1 and drawing 2, mold goods 1 are first fabricated with the 1st operation form of this invention in a desired configuration using the material of magnetism or \*\*\*\*.

[0011] Although the above-mentioned mold goods 1 showed the pan as a vessel in illustration It is not limited to the above-mentioned pan, for example, there are vessels, such as a cop, a teacup, a bowl, a bottle, and a cup, a teapot, a clay pot, vases, flowerpots (for example, \*\*, a basin, etc.), etc. the above-mentioned mold goods 1 Like known, raw materials, such as a pottery stone, a feldspar, and clay, are pulverized, after adding and kneading water in a pulverizing raw material, it fabricates in a predetermined configuration using this kneading material, and mold goods (help mechanically) 1 are obtained.

[0012] Moreover, the tourmaline content cover coat 3 containing the tourmaline powder 2 is \*\*\*\*(ed) by the above-mentioned mold goods 1, and this is calcinated at predetermined temperature, for example, 1000-1400 degrees C.

[0013] \*\*\*\* of the above-mentioned tourmaline content cover coat 3 may not be limited all over the mold goods 1 of illustration (inside-and-outside side), but may be only an inside (a receipt side or dishing-up side).

[0014] What is necessary is just to determine the content corresponding to the effect (based on a tourmaline) to expect, while what is necessary is just to use a particle size as occasion demands, although the above-mentioned tourmaline powder processes tourmaline rough with spallation and a grinder, the powder (what has a minute particle size) collected by the screen is used, the potential difference of a tourmaline crystal of the finer one becomes large and the effect by the tourmaline serves as size.

[0015] Although the cover coat which is the above-mentioned glaze omits explanation per common knowledge, of course, a pigment may also be mixed.

[0016] According to the vessel A processed as mentioned above, the following characteristic effects are demonstrated by use of

the tourmaline content cover coat which tourmaline powder contains.

[0017] Many minerals are included while containing boron. While having 0.06mA feeble current, moreover it is also a permanent tourmaline and is 5.3V in a shawl tourmaline under a constant pressure, there is voltage of 3.3V by the RICHIAKU tourmaline, and electric field are formed.

[0018] PH and the weak alkalinity of 7.2-7.5 are shown. Of course, there are also sterilization and an antibacterial action and the wavelength of far infrared rays is 4-14 microns (animals-and-plants good effect).

[0019] The rate of infrared radiation shows 92.7% (235 degrees C of mean temperature). A wave-motion numeric value can be raised to 17 to 22 range with burning temperature and the rate of a compounding ratio. When conductivity is high, it excels in the activity effect. A restoration water heightens the immunity effect of a life object.

[0020] When according to the above the plus electrode of a tourmaline crystal adsorbs the anion in air, and is stored in a minus electrode and the moisture in air (moisture) is touched, an anion is emitted to a minus electrode into the atmosphere in an instant, and surrounding air serves as an anion and has the same effect as carrying out a forest bath.

[0021] Moreover, in the case of water, electrolysis is caused, H<sub>2</sub>O is divided into hydrogen ion H<sup>+</sup> and hydroxide-ion OH<sup>-</sup>, and H<sup>+</sup> carries out joint neutralization with the electron which is drawn to the minus pole of a tourmaline crystal and is emitted from there, and is emitted as hydrogen gas. These operations show that water changes alkaline.

[0022] Furthermore, a hydrogen ion (anion) combines with the molecule of water, changes to hydroxyne ion H<sub>3</sub>O<sup>2-</sup>, and expresses the surface activity effect.

[0023] In addition, a tourmaline crystal continues generating everlastingly a 4-14-micron electromagnetic wave, i.e., far infrared rays.

[0024] The remarkable good influence of the hair root on the vegetation planted in the flowerpot also from this is expectable. Of course, the life of the flower inserted in the vase according to the effect to water purification and activation is also extended.

[0025] As a result of [ the ] this preventing the oxidization caused aging, whose anti-oxidizing power, i.e., reducing power, which a tourmaline has, \*\*\*\*\* becomes a bird clapper well.

[0026] Moreover, if alcohol etc. is put into a vessel, the taste of alcohol will become mild and will become delicious. Of course, it is the same even if it drinks other than alcohol.

[0027] With the 2nd operation gestalt of this invention, the tourmaline powder 2 (a particle is also good) is mixed in the aforementioned material of the mold goods 1 fabricated in a desired configuration using the material of magnetism or \*\*\*\* as shown in drawing 3. *tourmaline*

[0028] The material of the material of the above-mentioned mold goods 1 and tourmaline powder are attached like the 1st operation gestalt, and omit explanation.

[0029] The above-mentioned mold goods 1 are calcinated at suitable temperature. In that case, as shown in drawing 4, the known cover coat 11 may be \*\*\*\*(ed) to mold goods 1. Moreover, as shown in drawing 5, tourmaline powder may be mixed in a cover coat and the tourmaline content cover coat 3 may be \*\*\*\*(ed).

[0030] According to the above vessels A, there is the same effect as the 1st operation gestalt with the tourmaline powder 2 currently mixed in mold goods 1, the tourmaline powder 2 currently mixed in mold goods 1, and the tourmaline content cover coat 3.

[0031]

[Effect of the Invention] Since the vessel of this invention is constituted as mentioned above, while health promotion and environmental clarification have activity, the immunity effect and sterilization, and an antibacterial action from the first and mouthfeel becomes delicious, the life of flower arrangement is extended and the effect which was further excellent also in vegetable training is demonstrated.

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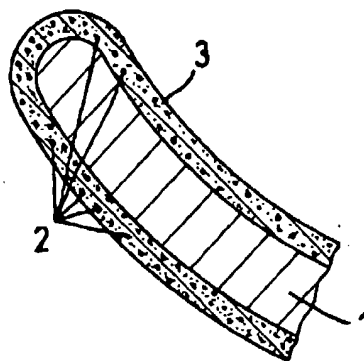
弁理士 和田 昭

(54) 【発明の名称】 器

(57) 【要約】

【課題】 健康増進や環境清浄はもとより活性、免疫効果及び殺菌、抗菌作用があり、また食感が美味になるなどの器を提供する。

【解決手段】 所望の形状に成形した磁性または陶性の成形品1にトルマリン粉末2を含有したトルマリン含有釉薬3を施釉し、所定の温度で焼成する。



## 【特許請求の範囲】

【請求項1】 所望の形状に成形した磁性又は陶性の成形品にトルマリン粉末を含有したトルマリン含有釉薬を旋軸し、所定の温度で焼成したことを特徴とする器。

【請求項2】 磁性又は陶性の素材に適当な量のトルマリンの粉末或いは粒子を混入して所望の形状に成形品を成形し、この成形品を所定の温度で焼成したことを特徴とする器。

【請求項3】 上記成形品に釉薬を旋軸したことを特徴とする請求項2に記載の器。

【請求項4】 上記成形品にトルマリン粉末を含有したトルマリン含有釉薬を旋軸したことを特徴とする請求項2に記載の器。

## 【発明の詳細な説明】

【0001】

【発明の属する技術分野】この発明は、器、例えば各種食器や花器、植木鉢などで、健康増進や環境清浄はもとより活性、免疫効果、殺菌、抗菌作用があり、また食感が美味やまろやかになるなどの器に関する。

【0002】

【従来の技術】従来の器、例えば各種形状の食器や花器などは、陶石や長石及び粘土などの天然鉱物の混合物を混練し、そして所定の形状に成形したのち、成形品を適温により焼成したものが一般的である。なお、焼成する前の成形品には、釉薬が旋軸されている。

【0003】

【発明が解決しようとする課題】上記のような器、例えば食器によると、単に調理した食品を入れ、或いは盛り付けるもので、食器から健康増進や美味になるなどの効果がなく、単に食器の絵模様などによる美的な効果のみである。

【0004】また、コップ類や花器などにあっても水の浄化や活性化などがなく、特に花器にあっては短時間で水の腐敗が生じて生花の寿命が短くなり、特に温度の高い夏場にあっては上記の問題が顕著になるので、頻繁な水の交換が必要になる。

【0005】そこで、この発明の課題は、健康増進や環境清浄はもとより活性、免疫効果及び殺菌、抗菌作用があり、また食感が美味になるなどのすぐれた効果を発揮する器を提供することにある。

【0006】

【課題を解決するための手段】上記の課題を解決するために、この発明は、所望の形状に成形した磁性又は陶性の成形品にトルマリン粉末を含有したトルマリン含有釉薬を旋軸し、所定の温度で焼成する。

【0007】また、磁性又は陶性の素材に適当な量のトルマリンの粉末或いは粒子を混入して所望の形状に成形品を成形し、この成形品を所定の温度で焼成する。

【0008】さらに、トルマリンの粉末或いはトルマリンの粒子を混入した成形品に釉薬を旋軸し、またトルマ

リンの粉末或いは粒子の混入した成形品にトルマリン粉末を含有したトルマリン含有釉薬を旋軸することもある。

【0009】

【発明の実施の形態】この発明の実施の形態を添付図面に基づいて説明する。

【0010】この発明の第1の実施形態では、図1及び図2に示すようにまず磁性又は陶性の素材を用いて所望の形状に成形品1を成形する。

10 【0011】上記の成形品1は、図示の場合器としての皿を示したが、上記の皿に限定されず、例えばコップ、茶碗、どんぶり鉢、徳利、杯などの器や、急須、土鍋、花器類（例えば壺や水盤など）、植木鉢などがあり、上記の成形品1は、既知のように、例えば陶石、長石、粘土などの原料を微粉砕し、微粉砕原料に水を加えて混練したのち、この混練材料を用いて所定の形状に成形して（人手や機械的に）成形品1を得る。

【0012】また、上記の成形品1には、トルマリン粉末2を含有したトルマリン含有釉薬3が旋軸され、これを所定の温度例えば1000～1400℃で焼成する。

20 【0013】上記のトルマリン含有釉薬3の旋軸は、図示の成形品1の全面（内外面）に限定されず、内面（収納或いは盛り付け側）のみであってもよい。

【0014】上記のトルマリン粉末は、トルマリン原石を破砕並びに粉砕機により処理し、篩によって回収した粉末（粒径の微小なもの）を使用するもので、細かい方がトルマリン結晶の電位差が大きくなり、トルマリンによる効果が大きくなるが、必要に応じた粒径を使用すればよいと共に、期待する効果（トルマリンによる）に対応する含有量を決定すればよい。

【0015】上記のうわぐすりである釉薬は、周知につき説明を省略するが、勿論、顔料も混入することもある。

【0016】上記のように処理された器Aによると、トルマリン粉末の含有するトルマリン含有釉薬の使用により下記のような特有の効果を発揮する。

【0017】ホウ素を含有すると共に、ミネラルを多く含む。0.06ミリアンペアの微弱電流をもっていると共に、永久電気石でもあり、一定圧力下でショールトルマリンで5.3Vの、またリチアクトルマリンで3.3Vの電圧があり、電場を形成する。

【0018】PH、7.2～7.5の弱アルカリ性を示す。勿論、殺菌、抗菌作用もあり遠赤外線の波長は、4～14ミクロンである（動植物好効果）。

【0019】赤外線放射率は、92.7%を示す（平均温度235℃にて）、焼成温度及び配合比率により波動数値を17～22範囲に上げることができる。伝導性の高い場合活性効果にすぐれる。還元水は、生命体の免疫効果を高める。

50 【0020】上記によると、トルマリン結晶のプラス電



極は、空気中のマイナスイオンを吸着してマイナス電極に蓄え空気中の水分(湿気)に触れると、マイナス電極は瞬時にマイナスイオンを大気中に放出され、周囲の空気はマイナスイオンとなり、森林浴をするのと同じ効果がある。

【0021】また、水の場合は電気分解を起し $H_2O$ は水素イオン $H^+$ と水酸イオン $OH^-$ に分離し、 $H^+$ はトルマリン結晶のマイナス極に引きつけられそこから放出される電子と結合中和し、水素ガスとして放出される。これらの作用は、水がアルカリ性になることを示す。

【0022】さらに、水素イオン(マイナスイオン)は、水の分子と結合してヒドロキシイオン $H_3O_2^-$ になり、界面活性効果を表わす。

【0023】なお、トルマリン結晶は、4~14ミクロンの電磁波すなわち、遠赤外線を恒久的に発生しつづける。

【0024】このことから、植木鉢に植えた植物の毛根への著しい好影響が期待できる。勿論、水の浄化と活性化への効果によって花器に挿入した草花の寿命ものびる。

【0025】これは、トルマリンがもつ抗酸化力すなわち還元力が老化の原因である酸化を防ぐ、その結果水あげがよくなることになる。

【0026】また、器に例えば酒などを入れると、酒の味がマイルドになって美味になる。勿論、酒以外の飲用するものであっても同様である。

【0027】この発明の第2の実施形態では、図3に示すように磁性又は陶性の素材を用いて所望の形状に成形する成形品1の前記素材内には、トルマリン粉末2(粒

子でも可)が混入してある。

【0028】上記成形品1の素材の材料、トルマリン粉末は、第1の実施形態と同様につき説明を省略する。

【0029】上記の成形品1は、適当な温度で焼成する。その際、図4に示すように成形品1に既知の釉薬1を旋軸することもある。また、図5に示すように釉薬にトルマリン粉末を混入してトルマリン含有釉薬3を旋軸することもある。

【0030】上記のような器Aによると、成形品1に混入してあるトルマリン粉末2や、成形品1に混入してあるトルマリン粉末2及びトルマリン含有釉薬3によって第1の実施形態と同様の効果がある。

【0031】

【発明の効果】この発明の器は、以上のように構成してあるので、健康増進や環境清浄はもとより活性、免疫効果並びに殺菌、抗菌作用があり、また食感が美味になると共に、生花の寿命がのび、さらに植物の育成にもすぐれた効果を発揮する。

【図面の簡単な説明】

【図1】この発明の第1の実施形態を示す縦断正面図

【図2】同上の要部を示す縦断拡大正面図

【図3】第2の実施形態の縦断正面図

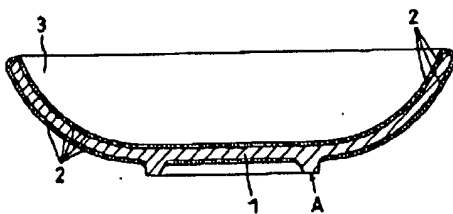
【図4】他の例の縦断正面図

【図5】他の例の縦断正面図

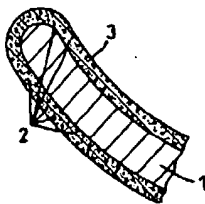
【符号の説明】

- |   |           |
|---|-----------|
| A | 器         |
| 1 | 成形品       |
| 2 | トルマリン粉末   |
| 3 | トルマリン含有釉薬 |

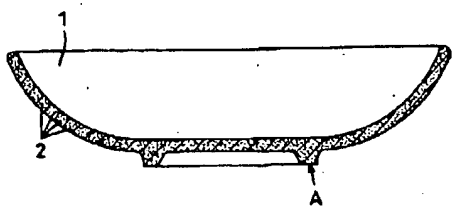
【図1】



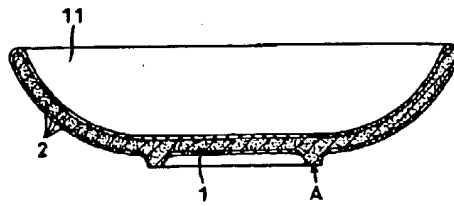
【図2】



【図3】



【図4】



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【図5】

